

HIGH RANGE ION CHAMBER TBM

Model # TBM-ICH2-MARK V

FEATURES:

- DIGITAL READOUT: 8 digit-rate, 8 digits integrate
- DOSE RATE & TOTAL DOSE READ OUT
- SMALL LIGHTWEIGHT 26 oz.
- TBM PACKAGE
- FLAT RESPONSE - FREE AIR ION CHAMBER
- SEES AXIALLY BELOW 5 KEV GAMMA OR X-RAY
- SEES ALPHA, BETA, GAMMA, X-RAY
- FAST RESPONSE
- **WIDE RANGE: 2 mR/hr to 200 R/hr**

APPLICATION: Whenever a fast, sensitive ion chamber instrument is needed, the **TBM-ICH2-MARK V** is the latest in a series. The **TBM-ICH2-MARK V** ion chambers are now smaller and lighter. Based on newest more stable, essentially drift-free electrometer technology.

DESCRIPTION: The **TBM-ICH2-MARK V** consists of a 2.5" dia x 5" long air ion chamber coupled to a stable solid state MOSFET input electrometer with built in A to D converter to read out directly in mR/h or mR. Rate Range is 2 mR/h to 200 R/h in a single range. Dose Range is 2 mR - 10,000 R in a single range. The ion chamber's 180 mg/cm² graphite lined methacrylate walls give accurate "air equivalence." Thin (0.5 mg/cm²) Mylar window allows high sensitivity readings for alpha and for low energy beta such as C¹⁴ in addition to higher energy Betas, Gammas and X-rays.



Figure 1: TBM-ICH2-MARK V

TA

TECHNICAL ASSOCIATES

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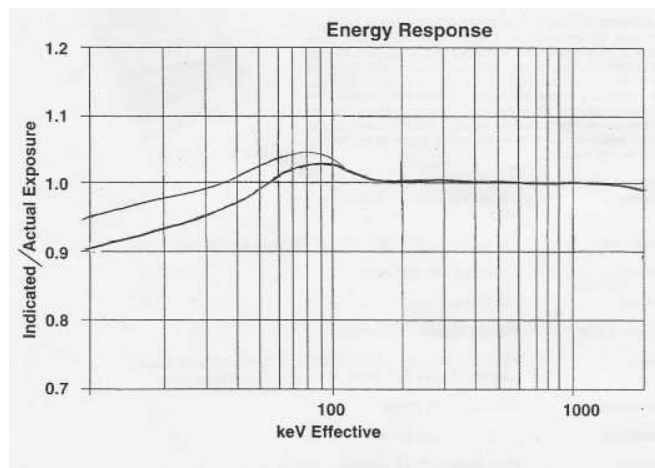
\$Revision: 1.2\$

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SPECIFICATIONS:

Detector:	Free Air ion chamber 2.5" dia x 5" long. Internal volume 260 cc.
Wall & Cap:	Methacrylate, graphite lined 180 mg/cm ² walls and 540 mg/cm ² cap.
Window:	2.0" dia. x 0.5 mg/cm ² Mylar.
Readout:	LCD 8 digits.
Indicator Lamp:	Green LED 10 pulses/sec per mR/h Red Over-range Indicator
Range:	Rate 8 digit 2 mR/h to 200 R/h in a single range. Integrate 8 digits 2 mR to 10,000 R in a single range.
Electrometer:	Solid State MOSFET input.
Electronics:	A-D converter LCD drivers.
Batteries:	25 ea. (Button) NEDA CR-1220 - shelf life 7 years. 6 ea. (AA) NEDA 15A - 1000hr.
Dimensions:	5-1/2" x 3-1/2" x 10" including handle.
Weight:	28 oz. complete with batteries.
Options:	Readout in Si units: Sv and Sv/h.



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